

**Residential Removals****Libby, Montana**

SDMS Document ID



1020125

**Owner's Name(s):** Les and Norita Skramstad**Phone:** 406-293-6602**Address of Removal:** 3647 Highway 2 South**Owner's Mailing Address:** same as above**Removal Dates:** July 14, 2003 – August 22, 2003**Type of Remediation:** Vermiculite-containing insulation removal from attic and exterior removal**Completion Meeting Date:** November 17, 2003**Completion Meeting Attendees:** Tommy Cook (CDM) and Les and Norita Skramstad (Owners)**Removal and Restoration Details Discussed and Agreed to:****Insulation Removal and Interior Cleaning**

1. Vermiculite-containing insulation (VCI) was removed from the finished attic (flooring) and knee wall areas. Other types of insulation within the attic were also removed. Insulation from the finished attic was removed by accessing it from the first floor ceiling. Following the insulation removal, attic surfaces were wet-wiped and cleaned using a vacuum equipped with a high-efficiency particulate air (HEPA) filter. An encapsulant was applied to areas of the attic from which VCI was removed to minimize release of residual contamination.
2. To facilitate the removal activities, the removal contractor removed the ceiling of the first floor. Objects on the first floor were moved out of the house and stored in a secure location or left in place and wrapped in plastic. The removal contractor used the existing interior access to the attic, but it was expanded.
3. The ceiling of the first floor was replaced with sheetrock that was textured and painted. Trim around the ceiling was replaced. The ceiling (plene) in the bathroom was not removed. Rather, the VCI was removed by accessing it from adjacent rooms.
4. Prior to the removal, dust samples were collected from the interior living space of the house. Analytical results of the samples collected indicated that Libby amphibole (LA) asbestos contamination was nondetect. Therefore, an interior cleaning was not required.
5. The removal contractor inspected the cabinets and closets to ensure VCI did not exist. If seen, the area was HEPA vacuumed and wet wiped.
6. As directed by the homeowner, all gray/blue carpet in the living room, hallway, and stairs was removed by the removal contractor and not replaced by the government. All other carpet (i.e., master bedroom, 2<sup>nd</sup> level) remained in place. The carpet was removed and disposed of at the landfill.

1. Vermiculite containing soil (VCS) was observed in the yard, and flowerbeds. The contaminated soil was removed and disposed of offsite. Confirmation soil samples were collected to verify that the contamination was removed.
2. A pile of soil along the back (east) yard and a bathtub adjacent to the shed/garage was identified as containing vermiculite within the soil. Therefore, the soil was removed and replaced.
3. Exterior restoration efforts employed "replace in kind" methods. That is, any contaminated material removed (e.g., soil, vegetation, household items, etc.) was replaced with similar items less than or equal to the original value.
4. CDM ensured that the lawn was watered once a week. In addition, the two roses in the north yard and flowers around the gazebo were watered twice a week.
5. A trench was excavated by the removal contractor extending from the existing pump vault to the foundation of the house. The removal contractor installed the water line and ensured it was buried at least 5 feet deep.
6. The owners granted permission for the removal contractor to trim back the lilacs to facilitate excavation.

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1. VCS was observed in the yard areas. These areas were excavated to a depth of 12-inches.
2. The excavated areas were replaced with sod and the removal contractor watered the areas for 7 days or until the resident was allowed to return to the property, whichever was greater. The removal contractor supplied the water source. Once the removal contractor was finished watering it became the responsibility of the homeowner to maintain the yard. Instructions on how to care for the sod were supplied to the homeowner. Instructions on properly watering newly installed sod were provided to the homeowner.

#### werbeds

1. VCS was observed in the flowerbeds; therefore, soil excavation to a depth of 18 inches was necessary.
2. An estimate of 15 cubic yards of contaminated soil was removed from the flowerbeds.
3. All plants in the flowerbeds that could be transplanted were; however, the homeowner received a gift certificate for the replacement of two lilac bushes.

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1. The tin roofing and miscellaneous buckets in the contaminated area behind the garage were disposed of and not replaced. The swing set was temporarily removed during excavation and was returned to the original location after removal activities were complete. The doors and

→ MISSING 8-10' TALL (44)  
Tom  
ER

white picket fence gate were not disposed of. The engine located behind the garage was temporarily moved during removal activities.

2. The breezeway area between the house and garage was re-inspected by the CDM oversight person. This was performed by "potholing" four (4) exploratory areas within the area of concern. Vermiculite was not found in any exploratory holes and therefore, no additional work was performed in this area.
3. Batting insulation was replaced between the joists in the ceiling of the first floor during restoration activities.
4. Excavating around the water valve vault was not necessary. Upon further inspection of the water valve vault, it was determined that all visible vermiculite could be removed from the interior of the vault. Following cleaning activities, a soil sample was collected to ensure contamination was removed from the vault.
5. The removal contractor found various samples collected by the homeowner that contain vermiculite. These samples were not disposed of and were returned to their original location after removal activities were complete.
6. Vermiculite was found in the soil beneath the house in the crawl space area. Two surface soil samples were collected and analyzed for Libby Amphibole (LA) asbestos. Analytical results for both samples were nondetect. Because the crawl space area is not routinely accessed, the soil containing vermiculite was not removed. Rather, a 6 mil poly sheeting was laid and stapled by the removal contractor in areas where future utility work may occur (i.e., plumbing). At this time, no future removal activities are planned. However, the EPA may determine that removing vermiculite from the crawl space is warranted and at that time, the property owners will be advised of any future removal plans.
7. It was determined that the removal contractor should install and connect a water line from the vault to the water intake beneath the house (crawl space area). The water line was properly connected and pressure tested to ensure the new water line did not leak. Once connected, the homeowner had a laborer inspect the work. All areas excavated necessary to install the water line were backfilled and revegetated as indicated in the original agreement.

### General Information

1. The removal contractor provided their own water source for personnel and equipment decontamination. Decontamination water was captured and disposed of offsite.
2. CDM watered the plants in the bathroom twice a week.
3. The electricity to the house was turned off and a generator was used to supply electricity to the refrigerator/freezer unit in the kitchen and the answering machine. The electricity was restored to the house when the removal and restoration activities were complete.
4. The EPA will provide the homeowner with a vacuum equipped with a high-efficiency particulate air (HEPA) filter. At the time of the closeout meeting, a HEPA vacuum had not been given to the homeowner.

persnabile items were lost due to the power outage. Therefore, a gift certificate in the amount of \$95.45 for groceries and \$50 in cash for insulin was awarded to the property owners.

6. All removal and restoration work as described above has been completed to my satisfaction.

Les Skramstad - Norita Skramstad 11/17/03  
Les and/or Norita Skramstad, Owner

Date

Courtney Zamora, Volpe  
Courtney Zamora, Volpe

11/17/03  
Date

Tommy Cook  
Tommy Cook, CDM

11/17/03  
Date

Chuck Jackson, ER  
Chuck Jackson, ER

11/17/03  
Date